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Attorneys for Twin Restaurant LV-2, LLC; Twin

Restaurant Holding, LLC; Fat Brands Inc.

UNITED STATES DISTRICT COURT DISTRICT OF NEVADA

Frank Schurr, an individual

Plaintiff.

VS.

Twin Restaurant LV-1, LLC dba Twin Peaks, a domestic limited liability company, Twin Restaurant LV-2, LLC dba Twin Peaks, a domestic limited liability company, a foreign corporation; Twin Restaurant Holding, LLC, a foreign limited liability company, Fat Brands, Inc., a foreign corporation; Roe Distributors I through X, Roe Manufacturers I through X, Roe Business Entities, I through X; and DOE Individuals I through X; Inclusive,

Defendant.

Case No.: 2:22-cv-1759

Defendants' Removal Petition

There are 4 defendants named in the caption. Defendant Twin Restaurant LV-1, LLC was previously dismissed.¹ The remaining defendants are Twin Restaurant LV-2, LLC, Twin Restaurant Holding, LLC, and Fat Brands Inc. These remaining defendants petition to remove this case to the United States District Court for the District of Nevada from the Eighth Judicial District Court for the State of Nevada. This petition for removal is signed per Rule 11.

¹ ECF No. 1-6.

276572781v.1

Removal is appropriate per 28 U.S.C. § 1441 because diversity jurisdiction is present per 28 U.S.C. 1332. Plaintiff alleges he is a citizen of Nevada.² The three defendants are part of the same corporate structure. The ownership structure for Twin Restaurant LV-2, LLC is traced below. It ultimately terminates with FAT Brands, Inc. This corporation is incorporated in Delaware and is principal place of business is in California, thus complete diversity is present.

- Twin Restaurant LV-2, LLC's sole member is
 - o Twin Restaurant Investment Company II, LLC, whose sole member is
 - o Twin Restaurant Development, LLC, whose sole member is
 - o Twin Restaurant Holding, LLC, whose sole member is
 - o Twin Peaks Buyer, LLC, whose sole member is
 - o FAT Brands Twin Peaks I, LLC, whose sole member is
 - o FAT Brands, Inc.

Plaintiff filed his complaint but alleged only damages in excess of \$15,000.³ On September 21, 2022 Plaintiff filed a procedural motion in state court alleging the medical treatment incurred due to his injury has cost \$138,310.70.⁴ Defendants removed within 30 days of notice that the amount in controversy exceeded \$75,000.

Based upon this, diversity jurisdiction is present and timely invoked.

DATED this 19th day of October, 2022.



BY: /s/ Michael Lowry

MICHAEL P. LOWRY, ESQ.

Nevada Bar No. 10666

JONATHAN C. PATTILLO, ESQ.

Nevada Bar No. 13929

Attorneys for Twin Restaurant LV-2, LLC; Twin Restaurant Holding, LLC; Fat Brands Inc.

⁴ ECF No. 1-5

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 $^{^{2}}$ ECF No. 1-2 at ¶ 1.

 $^{^3}$ ECF No. 1-2 at ¶ 14, 40, 49, and prayer for relief.

1	Certificate of Service
2	Pursuant to FRCP 5, I certify on October 19, 2022, I served Defendants' Removal Petition
3	as follows:
4 5	by placing same to be deposited for mailing in the United States Mail, in a sealed envelope upon which first class postage was prepaid in Las Vegas, Nevada;
6	via electronic means by operation of the Court's electronic filing system, upon each party in this case who is registered as an electronic case filing user with the Clerk;
7 8 9	VALIENTE MOTT, LTD 700 South 7 th Street Las Vegas, NV 89101
10	BY: _/s/ Michael Lowry
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Claim Rejections -35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 26-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murray (US 6,005,076).

Murray discloses a method for oil seed protein extraction (see the entire document).

Murray teaches extracting rapeseed meal with an aqueous food grade salt solution at a pH of about 5-6.8 at a temperature of about 5-35 °C (col 8, lines 30-40); the extracting step is effected for about 10-60 min (col 8, lines 63-66); the crude protein solution was then chilled to 6 °C for 16 h (col 7, lines 5-8); separating the aqueous protein solution from residual oil seed meal; removing fat from the aqueous protein solution by chilling said aqueous protein solution to a temperature below about 15 °C (col 9, lines 21-26); the fat is separated by decanting, centrifugation and /or fine filtration (claim 7); the supernatant was diafiltered (col 7, lines 45-50), and then concentrated by using a selective ultrafiltration membrane with a molecular weight cut-off of 30,000 (col 7, lines 10-15; claim 13) at a temperature of about 20-45 °C (claim 15); increasing the protein concentration of said defatted protein solution while maintaining the ionic strength thereof substantially constant to form a concentrated defatted protein solution (claim 1d); it is preferred to use a volume reduction factor of about 3.0-about 10 (col 4, lines 55-60); the high protein liquid extract was diluted 10 fold in tap water (6 °C) (col 7, lines 19-21), diluting

the concentrated defatted protein solution to cause the formation of discrete protein particles in the aqueous phase (claim 8e, col 9, lines 32-36); settling the protein micelles to form a mass of protein isolate in the form of an amorphous sticky gelatinous, gluten-like protein micellar mass (claim 8f, col 8, lines 52-57); the micellar mass was allowed to settle for 4 h at 3 °C (col 7, lines 50-55); the dry (desolventized) protein micellar mass has a protein content, usually in excess of about 90% protein (calculated as kjeldahl N x 6.25) (col 6, lines 34-38). See Example 2 in particular.

It would have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to use all the teaching of Murray in the entirement document although they are not exactly in one embodiment. Since Murray yielded beneficial results in pharmaceutical industry, one of ordinary skill in the art would have been motivated to make the modifications.

Claims 19-36, 38-45, and 50-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murray (US 6,005,076) in view of Jones et al (US 4,158,656).

Murray discloses a method for oil seed protein extraction (see the entire document). Murray teaches extracting rapeseed meal with an aqueous food grade salt solution at a pH of about 5-6.8 at a temperature of about 5-35 °C (col 8, lines 30-40); the extracting step is effected for about 10-60 min (col 8, lines 63-66); the crude protein solution was then chilled to 6 °C for 16 h (col 7, lines 5-8); separating the aqueous protein solution from residual oil seed meal; removing fat from the aqueous protein solution by chilling said aqueous protein solution to a temperature below about 15 °C (col 9, lines 21-26); the fat is separated by decanting,

centrifugation and /or fine filtration (claim 7); the supernatant was diafiltered (col 7, lines 45-50), and then concentrated by using a selective ultrafiltration membrane with a molecular weight cutoff of 30,000 (col 7, lines 10-15; claim 13) at a temperature of about 20-45 °C (claim 15);
increasing the protein concentration of said defatted protein solution while maintaining the ionic strength thereof substantially constant to form a concentrated defatted protein solution (claim 1d); it is preferred to use a volume reduction factor of about 3.0-about 10 (col 4, lines 55-60); the high protein liquid extract was diluted 10 fold in tap water (6 °C) (col 7, lines 19-21), diluting the concentrated defatted protein solution to cause the formation of discrete protein particles in the aqueous phase (claim 8e, col 9, lines 32-36); settling the protein micelles to form a mass of protein isolate in the form of an amorphous sticky gelatinous, gluten-like protein micellar mass (claim 8f, col 8, lines 52-57); the micellar mass was allowed to settle for 4 h at 3 °C (col 7, lines 50-55); the dry (desolventized) protein micellar mass has a protein content, usually in excess of about 90% protein (calculated as kjeldahl N x 6.25) (col 6, lines 34-38).

Murray does not teach washing canola oil seed meal with an alcohol (ethanol), ratio of canola oil seed meal in solvent, wash till no visible color is recovered, diafilatration solution contains an antioxidant (ascorbic), or any claimed amounts of antioxidant, membrane cut off point.

Jones et al (US 4,158,656) teach a process for producing protein concentrate product from rapeseed (see Abstract). Jones et al indicate that the problem is that the rapeseed contains numerous phenolic compounds which are readily oxidized and polymerized to condensed tannins which yield dark brown-black pigments. These can cause an unattractive coloration and

undesirable flavour in the food into which they are incorporated and, further, these phenolic compounds can be strongly bound to the protein and thereby diminish the nutritive value of the product (col 3, lines 25-33). The glucosinolates contained in rapeseed are hydrolysed by myrosinase under the appropriate conditions to isothiocyanates, nitriles, and oxazolidinethiones some of which are known to cause goiter. Rapeseed also contains a yellow pigment, the color intensity of which is very much enhanced in alkaline environments, and such coloration is highly undesirable in many food products (col 3, lines 38-47). Jones et al further teach that it is known that thioglucodies can be removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24). Phenolics in the rapeseed flour are easily oxidized in alkaline and neutral solutions in the presence of oxygen and it is therefore essential that the extractions should be conducted in a non-oxidizing medium. It is preferable that the solution contains an antioxidant, such as sulphur dioxide, or ascorbic acid (col 4, lines 65-67; col 5, lines 1-5). Jones et al also teach contacting seed material (rapeseed, claim 10) with an aqueous lower alkanol solvent solution (such as ethanol etc, claim 6) (at 20-50 °C) (solvent to solid ratios in the order of 4-10:1, col 4, lines 52-57) to thereby selectively extract glucosinolates, phenolic compounds and pigments therefrom at a temperature below 60 °C and under conditions so as to prevent oxidation of said phenolic compound and inhibiting enzymic degradation of glucosinolates; separating the liquid extract phase from a solid residue, drying (desolventized) the solid residue a at temperature below about 60 °C to thereby recover said protein concentration (claim 1). Jones et al further teach that it is known that thioglucodies can be removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24).

It would have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to use the antioxidant ascorbic acid in extracting process, wash rapeseeds with ethanol till no visible color is recovered, and inactivating myrosinase in Jones et al (US 4,158,656) due to the teaching in Jones et al as mentioned above.

Since all the inventions yielded beneficial results in pharmaceutical industry, one of ordinary skill in the art would have been motivated to make the modifications. Regarding the limitation to the amount of antioxidant, and membrane cut off point, the result-effective adjustment in conventional working parameters is deemed merely a matter of judicious selection and routine optimization which is well within the purview of the skilled artisan, which is dependent on the crop and amount of insect control that is needed.

Claims 19-36, and 38-45, 50-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murray (US 6,005,076) in view of Jones et al (US 4,158,656), and further in view of Jones et al (US 6,146,449).

Murray discloses a method for oil seed protein extraction (see the entire document). Murray teaches extracting rapeseed meal with an aqueous food grade salt solution at a pH of about 5-6.8 at a temperature of about 5-35 °C (col 8, lines 30-40); the extracting step is effected for about 10-60 min (col 8, lines 63-66); the crude protein solution was then chilled to 6 °C for

16 h (col 7, lines 5-8); separating the aqueous protein solution from residual oil seed meal; removing fat from the aqueous protein solution by chilling said aqueous protein solution to a temperature below about 15 °C (col 9, lines 21-26); the fat is separated by decanting, centrifugation and /or fine filtration (claim 7); the supernatant was diafiltered (col 7, lines 45-50), and then concentrated by using a selective ultrafiltration membrane with a molecular weight cutoff of 30,000 (col 7, lines 10-15; claim 13) at a temperature of about 20-45 °C (claim 15); increasing the protein concentration of said defatted protein solution while maintaining the ionic strength thereof substantially constant to form a concentrated defatted protein solution (claim 1d); it is preferred to use a volume reduction factor of about 3.0-about 10 (col 4, lines 55-60); the high protein liquid extract was diluted 10 fold in tap water (6 °C) (col 7, lines 19-21), diluting the concentrated defatted protein solution to cause the formation of discrete protein particles in the aqueous phase (claim 8e, col 9, lines 32-36); settling the protein micelles to form a mass of protein isolate in the form of an amorphous sticky gelatinous, gluten-like protein micellar mass (claim 8f, col 8, lines 52-57); the micellar mass was allowed to settle for 4 h at 3 °C (col 7, lines 50-55); the dry (desolventized) protein micellar mass has a protein content, usually in excess of about 90% protein (calculated as kjeldahl N x 6.25) (col 6, lines 34-38). See Example 2 in particular.

Murray does not teach washing canola oil seed meal with an alcohol (ethanol), ratio of canola oil seed meal in solvent, wash till no visible color is recovered, diafilatration solution contains an antioxidant (ascorbic), pasteurizating step, or any claimed amounts of antioxidant, membrane cut off point.

Jones et al (US 4,158,656) teach a process for producing protein concentrate product from rapeseed (see Abstract). Jones et al indicate that the problem is that the rapeseed contains numerous phenolic compounds which are readily oxidized and polymerized to condensed tannins which yield dark brown-black pigments. These can cause an unattractive coloration and undesirable flavour in the food into which they are incorporated and, further, these phenolic compounds can be strongly bound to the protein and thereby diminish the nutritive value of the product (col 3, lines 25-33). The glucosinolates contained in rapeseed are hydrolysed by myrosinase under the appropriate conditions to isothiocyanates, nitriles, and oxazolidinethiones some of which are known to cause goiter. Rapeseed also contains a yellow pigment, the color intensity of which is very much enhanced in alkaline environments, and such coloration is highly undesirable in many food products (col 3, lines 38-47). Jones et al further teach that it is known that thioglucodies can be removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24). Phenolics in the rapeseed flour are easily oxidized in alkaline and neutral solutions in the presence of oxygen and it is therefore essential that the extractions should be conducted in a non-oxidizing medium. It is preferable that the solution contains an antioxidant, such as sulphur dioxide, or ascorbic acid (col 4, lines 65-67; col 5, lines 1-5). Jones et al also teach contacting seed material (rapeseed, claim 10) with an aqueous lower alkanol solvent solution (such as ethanol etc, claim 6) (at 20-50 °C) (solvent to solid ratios in the order of 4-10:1, col 4, lines 52-57) to thereby selectively extract glucosinolates, phenolic compounds and pigments therefrom at a temperature below 60 °C and under conditions so as to prevent oxidation of said phenolic compound and inhibiting enzymic degradation of

glucosinolates; separating the liquid extract phase from a solid residue, drying (desolventized) the solid residue a at temperature below about 60 °C to thereby recover said protein concentration (claim 1). Jones et al further teach that it is known that thioglucodies can be removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24).

Jones et al (US 6,146,449) teach a method for preparing the high protein nutrient from oilseed-based material. Jones et al indicate that after forming the modified oilseed product, it is typically advisable to pasteurize the material to ensure that microbial activity is minimized. The modified oilseed product may be pasteurized, e.g., by raising the internal temperature of the product to about 75 °C, or above and maintaining that temperature for about 10-15 minutes (col 8, lines 42-50).

It would have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to use the antioxidant ascorbic acid in extracting process, wash rapeseeds with ethanol till no visible color is recovered, and inactivating myrosinase in Jones et al (US 4,158,656) due to the teaching in Jones et al as mentioned above.

It would also have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to pasteurization step in Jones et al (US 6,146,449) as Jones et al teach that it is typically advisable to pasteurize the material to ensure that microbial activity is minimized.

Since all the inventions yielded beneficial results in pharmaceutical industry, one of ordinary skill in the art would have been motivated to make the modifications. Regarding the limitation to the amount of antioxidant, and membrane cut off point, the result-effective adjustment in conventional working parameters is deemed merely a matter of judicious selection and routine optimization which is well within the purview of the skilled artisan, which is dependent on the crop and amount of insect control that is needed.

Claims 19-36, and 38-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murray (US 6,005,076) in view of Jones et al (US 4,158,656), and Jones et al (US 6,146,449), and further in view of Diosady et al (US 6,905,713).

Murray discloses a method for oil seed protein extraction (see the entire document).

Murray teaches extracting rapeseed meal with an aqueous food grade salt solution at a pH of about 5-6.8 at a temperature of about 5-35 °C (col 8, lines 30-40); the extracting step is effected for about 10-60 min (col 8, lines 63-66); the crude protein solution was then chilled to 6 °C for 16 h (col 7, lines 5-8); separating the aqueous protein solution from residual oil seed meal; removing fat from the aqueous protein solution by chilling said aqueous protein solution to a temperature below about 15 °C (col 9, lines 21-26); the fat is separated by decanting, centrifugation and /or fine filtration (claim 7); the supernatant was diafiltered (col 7, lines 45-50),

and then concentrated by using a selective ultrafiltration membrane with a molecular weight cutoff of 30,000 (col 7, lines 10-15; claim 13) at a temperature of about 20-45 °C (claim 15);
increasing the protein concentration of said defatted protein solution while maintaining the ionic
strength thereof substantially constant to form a concentrated defatted protein solution (claim
1d); it is preferred to use a volume reduction factor of about 3.0-about 10 (col 4, lines 55-60); the
high protein liquid extract was diluted 10 fold in tap water (6 °C) (col 7, lines 19-21), diluting
the concentrated defatted protein solution to cause the formation of discrete protein particles in
the aqueous phase (claim 8e, col 9, lines 32-36); settling the protein micelles to form a mass of
protein isolate in the form of an amorphous sticky gelatinous, gluten-like protein micellar mass
(claim 8f, col 8, lines 52-57); the micellar mass was allowed to settle for 4 h at 3 °C (col 7, lines
50-55); the dry (desolventized) protein micellar mass has a protein content, usually in excess of
about 90% protein (calculated as kjeldahl N x 6.25) (col 6, lines 34-38). See Example 2 in
particular.

Murray does not teach washing canola oil seed meal with an alcohol (ethanol), ratio of canola oil seed meal in solvent, wash till no visible color is recovered, diafilatration solution contains an antioxidant (ascorbic), pasteurizating step, contacting PVP, or any claimed amounts of antioxidant, membrane cut off point, or PVP.

Jones et al (US 4,158,656) teach a process for producing protein concentrate product from rapeseed (see Abstract). Jones et al indicate that the problem is that the rapeseed contains numerous phenolic compounds which are readily oxidized and polymerized to condensed tannins

which yield dark brown-black pigments. These can cause an unattractive coloration and undesirable flavour in the food into which they are incorporated and, further, these phenolic compounds can be strongly bound to the protein and thereby diminish the nutritive value of the product (col 3, lines 25-33). The glucosinolates contained in rapeseed are hydrolysed by myrosinase under the appropriate conditions to isothiocyanates, nitriles, and oxazolidinethiones some of which are known to cause goiter. Rapeseed also contains a yellow pigment, the color intensity of which is very much enhanced in alkaline environments, and such coloration is highly undesirable in many food products (col 3, lines 38-47). Jones et al further teach that it is known that thioglucodies can be removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24). Phenolics in the rapeseed flour are easily oxidized in alkaline and neutral solutions in the presence of oxygen and it is therefore essential that the extractions should be conducted in a non-oxidizing medium. It is preferable that the solution contains an antioxidant, such as sulphur dioxide, or ascorbic acid (col 4, lines 65-67; col 5, lines 1-5). Jones et al also teach contacting seed material (rapeseed, claim 10) with an aqueous lower alkanol solvent solution (such as ethanol etc, claim 6) (at 20-50 °C) (solvent to solid ratios in the order of 4-10:1, col 4, lines 52-57) to thereby selectively extract glucosinolates, phenolic compounds and pigments therefrom at a temperature below 60 °C and under conditions so as to prevent oxidation of said phenolic compound and inhibiting enzymic degradation of glucosinolates; separating the liquid extract phase from a solid residue, drying (desolventized) the solid residue a at temperature below about 60 °C to thereby recover said protein concentration (claim 1). Jones et al further teach that it is known that thioglucodies can be

removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24).

Jones et al (US 6,146,449) teach a method for preparing the high protein nutrient from oilseed-based material. Jones et al indicate that after forming the modified oilseed product, it is typically advisable to pasteurize the material to ensure that microbial activity is minimized. The modified oilseed product may be pasteurized, e.g., by raising the internal temperature of the product to about 75 °C, or above and maintaining that temperature for about 10-15 minutes (col 8, lines 42-50).

Diosady et al the production of high-quality protein isolates from defatted meals (see Title). In the process of isolating protein from canola meal, five grams of insoluble PVP was added to treat the solution for an hour, and then separated by filtration (col 23, lines 10-15).

It would have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to use the antioxidant ascorbic acid in extracting process, wash rapeseeds with ethanol till no visible color is recovered, and inactivating myrosinase in Jones et al (US 4,158,656) due to the teaching in Jones et al as mentioned above.

It would also have been prima facie obvious for one of ordinary skill in the art at the time the invention was made to pasteurization step in Jones et al (US 6,146,449) as Jones et al teach that it is typically advisable to pasteurize the material to ensure that microbial activity is minimized.

It would also have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to use the PVP in Diosady et al, as evidenced by Field, tannic acid content can be absorbed on PVP, thus the dark brown-black pigments could be removed.

Since all the inventions yielded beneficial results in pharmaceutical industry, one of ordinary skill in the art would have been motivated to make the modifications. Regarding the limitation to the amount of antioxidant, membrane cut off point, or PVP, the result-effective adjustment in conventional working parameters is deemed merely a matter of judicious selection and routine optimization which is well within the purview of the skilled artisan, which is dependent on the crop and amount of insect control that is needed.

Claims 19-45, and 50-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murray (US 6,005,076) in view of Jones et al (US 4,158,656), and Jones et al (US 6,146,449), and further in view of Holbrook et al (US 6,132,795).

Murray discloses a method for oil seed protein extraction (see the entire document).

Murray teaches extracting rapeseed meal with an aqueous food grade salt solution at a pH of about 5-6.8 at a temperature of about 5-35 °C (col 8, lines 30-40); the extracting step is effected for about 10-60 min (col 8, lines 63-66); the crude protein solution was then chilled to 6 °C for 16 h (col 7, lines 5-8); separating the aqueous protein solution from residual oil seed meal; removing fat from the aqueous protein solution by chilling said aqueous protein solution to a

temperature below about 15 °C (col 9, lines 21-26); the fat is separated by decanting, centrifugation and /or fine filtration (claim 7); the supernatant was diafiltered (col 7, lines 45-50). and then concentrated by using a selective ultrafiltration membrane with a molecular weight cutoff of 30,000 (col 7, lines 10-15; claim 13) at a temperature of about 20-45 °C (claim 15); increasing the protein concentration of said defatted protein solution while maintaining the ionic strength thereof substantially constant to form a concentrated defatted protein solution (claim 1d); it is preferred to use a volume reduction factor of about 3.0-about 10 (col 4, lines 55-60); the high protein liquid extract was diluted 10 fold in tap water (6 °C) (col 7, lines 19-21), diluting the concentrated defatted protein solution to cause the formation of discrete protein particles in the aqueous phase (claim 8e, col 9, lines 32-36); settling the protein micelles to form a mass of protein isolate in the form of an amorphous sticky gelatinous, gluten-like protein micellar mass (claim 8f, col 8, lines 52-57); the micellar mass was allowed to settle for 4 h at 3 °C (col 7, lines 50-55); the dry (desolventized) protein micellar mass has a protein content, usually in excess of about 90% protein (calculated as kjeldahl N x 6.25) (col 6, lines 34-38). See Example 2 in particular.

Murray does not teach washing canola oil seed meal with an alcohol (ethanol), ratio of canola oil seed meal in solvent, wash till no visible color is recovered, diafilatration solution contains an antioxidant (ascorbic), pasteurizating step, extracting protein isolate with alcoholic solution, or any claimed amounts of antioxidant, membrane cut off point.

Jones et al (US 4,158,656) teach a process for producing protein concentrate product from rapeseed (see Abstract). Jones et al indicate that the problem is that the rapeseed contains numerous phenolic compounds which are readily oxidized and polymerized to condensed tannins which yield dark brown-black pigments. These can cause an unattractive coloration and undesirable flavour in the food into which they are incorporated and, further, these phenolic compounds can be strongly bound to the protein and thereby diminish the nutritive value of the product (col 3, lines 25-33). The glucosinolates contained in rapeseed are hydrolysed by myrosinase under the appropriate conditions to isothiocyanates, nitriles, and oxazolidinethiones some of which are known to cause goiter. Rapeseed also contains a yellow pigment, the color intensity of which is very much enhanced in alkaline environments, and such coloration is highly undesirable in many food products (col 3, lines 38-47). Jones et al further teach that it is known that thioglucodies can be removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24). Phenolics in the rapeseed flour are easily oxidized in alkaline and neutral solutions in the presence of oxygen and it is therefore essential that the extractions should be conducted in a non-oxidizing medium. It is preferable that the solution contains an antioxidant, such as sulphur dioxide, or ascorbic acid (col 4, lines 65-67; col 5, lines 1-5). Jones et al also teach contacting seed material (rapeseed, claim 10) with an aqueous lower alkanol solvent solution (such as ethanol etc, claim 6) (at 20-50 °C) (solvent to solid ratios in the order of 4-10:1, col 4, lines 52-57) to thereby selectively extract glucosinolates, phenolic compounds and pigments therefrom at a temperature below 60 °C and under conditions so as to prevent oxidation of said phenolic compound and inhibiting enzymic degradation of glucosinolates; separating the liquid extract phase from a solid residue, drying (desolventized)

the solid residue a at temperature below about 60 °C to thereby recover said protein concentration (claim 1). Jones et al further teach that it is known that thioglucodies can be removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24).

Jones et al (US 6,146,449) teach a method for preparing the high protein nutrient from oilseed-based material. Jones et al indicate that after forming the modified oilseed product, it is typically advisable to pasteurize the material to ensure that microbial activity is minimized. The modified oilseed product may be pasteurized, e.g., by raising the internal temperature of the product to about 75 °C, or above and maintaining that temperature for about 10-15 minutes (col 8, lines 42-50).

Holbrook et al teach that vegetable protein concentrate or vegetable protein isolate is an alcohol extract or washed material since alcohol extraction provides a protein material especially suitable for use in a food material (col 5, lines 15-20). Holbrook et al also teach that vegetable materials which contain protein and isoflavones include oilseeds such as rapeseed etc (col 8, lines 64-67; col 9, lines 1-5).

It would have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to use the antioxidant ascorbic acid in extracting process, wash rapeseeds with ethanol till no visible color is recovered, and inactivating myrosinase in Jones et al (US 4,158,656) due to the teaching in Jones et al as mentioned above.

It would also have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to pasteurization step in Jones et al (US 6,146,449) as Jones et al teach that it is typically advisable to pasteurize the material to ensure that microbial activity is minimized.

It would also have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to extract canola protein isolate with aqueous alcoholic solution as Holbrook et al teach that alcohol extraction provides a protein material especially suitable for use in a food material.

Since all the inventions yielded beneficial results in pharmaceutical industry, one of ordinary skill in the art would have been motivated to make the modifications. Regarding the limitation to the amount of antioxidant, and membrane cut off point, the result-effective adjustment in conventional working parameters is deemed merely a matter of judicious selection and routine optimization which is well within the purview of the skilled artisan, which is dependent on the crop and amount of insect control that is needed.

Claims 19-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murray (US 6,005,076) in view of Jones et al (US 4,158,656), and Jones et al (US 6,146,449), and further in view of Diosady et al (US 6,905,713), and Holbrook et al (US 6,132,795).

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Art Unit: 1655

Murray discloses a method for oil seed protein extraction (see the entire document). Murray teaches extracting rapeseed meal with an aqueous food grade salt solution at a pH of about 5-6.8 at a temperature of about 5-35 °C (col 8, lines 30-40); the extracting step is effected for about 10-60 min (col 8, lines 63-66); the crude protein solution was then chilled to 6 °C for 16 h (col 7, lines 5-8); separating the aqueous protein solution from residual oil seed meal; removing fat from the aqueous protein solution by chilling said aqueous protein solution to a temperature below about 15 °C (col 9, lines 21-26); the fat is separated by decanting. centrifugation and /or fine filtration (claim 7); the supernatant was diafiltered (col 7, lines 45-50), and then concentrated by using a selective ultrafiltration membrane with a molecular weight cutoff of 30,000 (col 7, lines 10-15; claim 13) at a temperature of about 20-45 °C (claim 15); increasing the protein concentration of said defatted protein solution while maintaining the ionic strength thereof substantially constant to form a concentrated defatted protein solution (claim 1d); it is preferred to use a volume reduction factor of about 3.0-about 10 (col 4, lines 55-60); the high protein liquid extract was diluted 10 fold in tap water (6 °C) (col 7, lines 19-21), diluting the concentrated defatted protein solution to cause the formation of discrete protein particles in the aqueous phase (claim 8e, col 9, lines 32-36); settling the protein micelles to form a mass of protein isolate in the form of an amorphous sticky gelatinous, gluten-like protein micellar mass (claim 8f, col 8, lines 52-57); the micellar mass was allowed to settle for 4 h at 3 °C (col 7, lines 50-55); the dry (desolventized) protein micellar mass has a protein content, usually in excess of about 90% protein (calculated as kjeldahl N x 6.25) (col 6, lines 34-38). See Example 2 in particular.

Murray does not teach washing canola oil seed meal with an alcohol (ethanol), ratio of canola oil seed meal in solvent, wash till no visible color is recovered, diafilatration solution contains an antioxidant (ascorbic), pasteurizating step, or any claimed amounts of antioxidant, membrane cut off point, or PVP.

Jones et al (US 4,158,656) teach a process for producing protein concentrate product from rapeseed (see Abstract). Jones et al indicate that the problem is that the rapeseed contains numerous phenolic compounds which are readily oxidized and polymerized to condensed tannins which yield dark brown-black pigments. These can cause an unattractive coloration and undesirable flavour in the food into which they are incorporated and, further, these phenolic compounds can be strongly bound to the protein and thereby diminish the nutritive value of the product (col 3, lines 25-33). The glucosinolates contained in rapeseed are hydrolysed by myrosinase under the appropriate conditions to isothiocyanates, nitriles, and oxazolidinethiones some of which are known to cause goiter. Rapeseed also contains a yellow pigment, the color intensity of which is very much enhanced in alkaline environments, and such coloration is highly undesirable in many food products (col 3, lines 38-47). Jones et al further teach that it is known that thioglucodies can be removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24). Phenolics in the rapeseed flour are easily oxidized in alkaline and neutral solutions in the presence of oxygen and it is therefore essential that the extractions should be conducted in a non-oxidizing medium. It is preferable that the solution contains an antioxidant, such as sulphur dioxide, or ascorbic acid (col 4, lines 65-67; col 5, lines 1-5). Jones et al also teach contacting seed material (rapeseed, claim 10) with an

aqueous lower alkanol solvent solution (such as ethanol etc, claim 6) (at 20-50 °C) (solvent to solid ratios in the order of 4-10:1, col 4, lines 52-57) to thereby selectively extract glucosinolates, phenolic compounds and pigments therefrom at a temperature below 60 °C and under conditions so as to prevent oxidation of said phenolic compound and inhibiting enzymic degradation of glucosinolates; separating the liquid extract phase from a solid residue, drying (desolventized) the solid residue a at temperature below about 60 °C to thereby recover said protein concentration (claim 1). Jones et al further teach that it is known that thioglucodies can be removed from crushed oilseed by aqueous extraction following a myrosinase inactivating water treatment (col 1, lines 15-24).

Jones et al (US 6,146,449) teach a method for preparing the high protein nutrient from oilseed-based material. Jones et al indicate that after forming the modified oilseed product, it is typically advisable to pasteurize the material to ensure that microbial activity is minimized. The modified oilseed product may be pasteurized, e.g., by raising the internal temperature of the product to about 75 °C, or above and maintaining that temperature for about 10-15 minutes (col 8, lines 42-50).

Diosady et al the production of high-quality protein isolates from defatted meals (see Title). In the process of isolating protein from canola meal, five grams of insoluble PVP was added to treat the solution for an hour, and then separated by filtration (col 23, lines 10-15).

Holbrook et al teach that vegetable protein concentrate or vegetable protein isolate is an alcohol extract or washed material since alcohol extraction provides a protein material especially suitable for use in a food material (col 5, lines 15-20). Holbrook et al also teach that vegetable materials which contain protein and isoflavones include oilseeds such as rapeseed etc (col 8, lines 64-67; col 9, lines 1-5).

It would have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to use the antioxidant ascorbic acid in extracting process, wash rapeseeds with ethanol till no visible color is recovered, and inactivating myrosinase in Jones et al (US 4,158,656) due to the teaching in Jones et al as mentioned above.

It would also have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to pasteurization step in Jones et al (US 6,146,449) as Jones et al teach that it is typically advisable to pasteurize the material to ensure that microbial activity is minimized.

It would also have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to use the PVP in Diosady et al, as evidenced by Field, tannic acid content can be absorbed on PVP, thus the dark brown-black pigments could be removed.

It would also have been prima facie obvious for one of ordinary skill in the art at the time

the invention was made to extract canola protein isolate with aqueous alcoholic solution as

Holbrook et al teach that alcohol extraction provides a protein material especially suitable for use

in a food material.

Since all the inventions yielded beneficial results in pharmaceutical industry, one of

ordinary skill in the art would have been motivated to make the modifications. Regarding the

limitation to the amount of antioxidant, membrane cut off point, or PVP, the result-effective

adjustment in conventional working parameters is deemed merely a matter of judicious selection

and routine optimization which is well within the purview of the skilled artisan, which is

dependent on the crop and amount of insect control that is needed.

From the teachings of the references, it is apparent that one of the ordinary skills in the

art would have had a reasonable expectation of success in producing the claimed invention.

Thus, the invention as a whole is *prima facie* obvious over the references, especially in

the absence of evidence to the contrary.

*This reference is cited merely to relay an intrinsic property and is not used in the basis

for rejection per se.

Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qiuwen Mi whose telephone number is 571-272-5984. The examiner can normally be reached on 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Patricia Leith/ Patricia Leith Primary Examiner AU 1655